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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,884	01/28/2002	Yasuhito Kobayashi	GNE470A	2045

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EXAMINER

TRAN, VINCENT HUY

ART UNIT PAPER NUMBER

2115

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/055,884

Applicant(s)

KOBAYASHI

Examiner

Vincent T. Tran

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 28 January 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4, 8 and 12-18 is/are allowed.
- 6) ☒ Claim(s) 1, 5, 9 and 19-21 is/are rejected.
- 7) ☒ Claim(s) 2, 3, 6, 7, 10, 11 and 22-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

- Claims 1-24 are pending for examination.

Claim Objections

1. Claims 2, 3, 6, 7, 10, 11, 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowable Subject Matter

2. Claims 4, 8, 12-18 are allowed.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 5, 9, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa U.S. Patent 6,031,999 in view of Zhang et al U.S. Patent 6,765,587.
5. As per claim 1, Ogawa teaches a power-saving task processing system comprising:

Art Unit: 2115

a remaining power detector for detecting a remaining power of a battery; the remaining power detector outputting a detection result about a value or state of the remaining power of the battery [S101, S102 fig. 2];

a task controller for controlling execution of tasks to be executed [col. 3 lines 39-42]; wherein when the task controller executes a task [to take photographs – col. 3 lines 67], the task controller chooses and executes one of the plurality of processes according to the detection result of the remaining power detector [fig. 2].

Ogawa teaches a relationship between values or states of the remaining power of the battery on execution of task [taking photographs] and a plurality of processes for said task, each of the plurality of processes corresponding to a different value or state of the remaining power of the battery¹

[Level 1- display, flash, auto-focus, motion compensation device, shutter

[below Level 1 - display, flash, auto-focus, shutter

[below Level 2 – display, flash, shutter

[below Level 3 – display, shutter

[below Level 4 – none ; col. 4 lines 42 to col. 5 line 3] and

for which complete execution is ensured at the respective values or states of the remaining power of the battery [col. 8 lines 25-35].

However, Ogawa is silent in teaching a motion information-storage for storing a motion information table. Ogawa's system is inefficient since Ogawa's system required to set and re-set

¹ Level defines the remaining state of the remaining battery.

of the prohibiting flag for each device at each state of the remaining battery which is time consuming.

Zhang et al teach another method for optimizing power in an apparatus. Specifically Zhang et al teach the image processing apparatus includes a program bank [31 fig. 4] including a ROM which stores a plurality of processes (types of interpolation programs), a program switching section [32 fig. 4 which control by control system 44 fig. 4] for selecting one of the plurality of processes for performing signal processing in accordance with the requirements regarding power consumption [col. 11 lines 24-32 & fig. 4].

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teaching of both Ogawa and Zhang et al since they both directed to the teaching of execution of tasks and when the task controller executes a task, the task controller chooses and executes one of the plurality of processes according to the state or value of power. Zhang et al teach a motion information-storage for storing a motion information table which would improve the efficiency of the Ogawa's system by provide the Ogawa's system the means to seamlessly switching from one process to another according to the state of the remaining battery when a task is executed.

6. As per claim 20, Ogawa teaches the content of each of the plurality of processes differs according to the detected remaining power [see discussion in claim 1].

7. As per claim 21, Ogawa teaches the amount of content of each of the plurality of processes corresponds to the amount of detected remaining power [see discussion in claim 1].

Response to Arguments

8. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.
9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

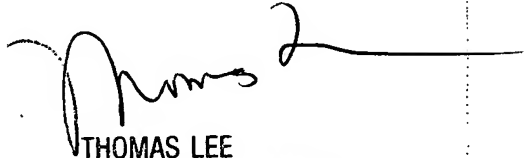
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent T. Tran whose telephone number is (571) 272-7210. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas c. Lee can be reached on (571) 272-3667. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2115

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vincent Tran



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